

#7 1644



1600

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/062,710

DATE: 10/17/2002
 TIME: 21:38:57

Input Set : N:\Crf4\10112002\J062710.raw
 Output Set: N:\CRF4\10172002\J062710.raw

P.6

TECH CENTER 1600/2900

OCT 22 2002

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ENTERED

1 <110> APPLICANT: Li, Frank Q.
 2 Chu, Yong-Liang
 3 Qiu, Jian-Tai
 4 <120> TITLE OF INVENTION: Polymeric Conjugates for Delivery of
 5 MHC-Recognized Epitopes
 6 Via Peptide Vaccines
 7 <130> FILE REFERENCE: 3781-001-27
 8 <140> CURRENT APPLICATION NUMBER: US/10/062,710
 9 <141> CURRENT FILING DATE: 2002-02-05
 10 <150> PRIOR APPLICATION NUMBER: US 60/310,498
 11 <151> PRIOR FILING DATE: 2001-08-08
 12 <160> NUMBER OF SEQ ID NOS: 232
 13 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 10
 17 <212> TYPE: PRT
 18 <213> ORGANISM: HIV-1
 19 <400> SEQUENCE: 1
 20 Pro Ala Met Gln Met Leu Lys Glu Thr Ile
 21 1 5 10
 23 <210> SEQ ID NO: 2
 24 <211> LENGTH: 16
 25 <212> TYPE: PRT
 26 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
 29 <400> SEQUENCE: 2
 30 Pro Leu Arg Pro Gly Gly Lys Lys Lys Tyr Lys Leu Lys His Ile Val
 31 1 5 10 15
 33 <210> SEQ ID NO: 3
 34 <211> LENGTH: 9
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Artificial Sequence
 37 <220> FEATURE:
 38 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
 39 <220> FEATURE:
 40 <221> NAME/KEY: VARIANT
 41 <222> LOCATION: 9
 42 <223> OTHER INFORMATION: Xaa = Any Amino Acid
 43 <400> SEQUENCE: 3
 W--> 44 Pro Arg Pro Gly Gly Lys Lys Tyr Xaa
 45 1 5
 47 <210> SEQ ID NO: 4

RAW SEQUENCE LISTING

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48 <211> LENGTH: 16
49 <212> TYPE: PRT
50 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
53 <400> SEQUENCE: 4
54   Pro Glu Ile Lys Asp Thr Lys Glu Ala Leu Asp Lys Ile Glu Glu Glu
55     1             5             10             15
57 <210> SEQ ID NO: 5
58 <211> LENGTH: 16
59 <212> TYPE: PRT
60 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
63 <400> SEQUENCE: 5
64   Pro Ala Ala Ala Asp Thr Gly His Ser Ser Gln Val Ser Gln Asn Tyr
65     1             5             10             15
67 <210> SEQ ID NO: 6
68 <211> LENGTH: 16
69 <212> TYPE: PRT
70 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
73 <400> SEQUENCE: 6
74   Pro Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His Gln Ala Ile
75     1             5             10             15
77 <210> SEQ ID NO: 7
78 <211> LENGTH: 21
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
83 <400> SEQUENCE: 7
84   Pro Val His Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys
85     1             5             10             15
86   Val Val Glu Glu Lys
87             20
89 <210> SEQ ID NO: 8
90 <211> LENGTH: 16
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
95 <400> SEQUENCE: 8
96   Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu Cys
97     1             5             10             15
99 <210> SEQ ID NO: 9
100 <211> LENGTH: 18
101 <212> TYPE: PRT

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102 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
105 <400> SEQUENCE: 9
106   Pro Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly His Gln Ala Ala
107       1             5             10             15
108   Met Gln
110 <210> SEQ ID NO: 10
111 <211> LENGTH: 16
112 <212> TYPE: PRT
113 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
116 <400> SEQUENCE: 10
117   Pro Met Leu Lys Glu Thr Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg
118       1             5             10             15
120 <210> SEQ ID NO: 11
121 <211> LENGTH: 9
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
126 <400> SEQUENCE: 11
127   Pro Met Arg Glu Pro Arg Gly Ser Asp
128       1             5
130 <210> SEQ ID NO: 12
131 <211> LENGTH: 23
132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
136 <400> SEQUENCE: 12
137   Pro Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro
138       1             5             10             15
139   Val Gly Glu Ile Tyr Lys Arg
140       20
142 <210> SEQ ID NO: 13
143 <211> LENGTH: 16
144 <212> TYPE: PRT
145 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
148 <400> SEQUENCE: 13
149   Pro Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile Val Arg Met Tyr
150       1             5             10             15
152 <210> SEQ ID NO: 14
153 <211> LENGTH: 20
154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial Sequence

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156 <220> FEATURE:
157 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
158 <400> SEQUENCE: 14
159     Pro Gln Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys
160         1             5             10             15
161     Thr Leu Arg Ala
162             20
164 <210> SEQ ID NO: 15
165 <211> LENGTH: 16
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
170 <400> SEQUENCE: 15
171     Pro Lys Glu Gly His Gln Met Lys Asp Cys Thr Glu Arg Gln Ala Asn
172         1             5             10             15
174 <210> SEQ ID NO: 16
175 <211> LENGTH: 9
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
180 <400> SEQUENCE: 16
181     Pro Pro Ser Tyr Lys Gly Arg Pro Gly
182         1             5
184 <210> SEQ ID NO: 17
185 <211> LENGTH: 16
186 <212> TYPE: PRT
187 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
190 <400> SEQUENCE: 17
191     Pro Glu Ser Phe Arg Ser Gly Val Glu Thr Thr Thr Pro Pro Gln Lys
192         1             5             10             15
194 <210> SEQ ID NO: 18
195 <211> LENGTH: 16
196 <212> TYPE: PRT
197 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
200 <400> SEQUENCE: 18
201     Pro Cys Thr Glu Met Glu Lys Glu Gly Lys Ile Ser Lys Ile Gly Pro
202         1             5             10             15
204 <210> SEQ ID NO: 19
205 <211> LENGTH: 16
206 <212> TYPE: PRT
207 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes

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210 <400> SEQUENCE: 19
211   Pro Trp Glu Val Gln Leu Gly Ile Pro His Pro Ala Gly Leu Lys Lys
212     1                   5                   10                   15
214 <210> SEQ ID NO: 20
215 <211> LENGTH: 12
216 <212> TYPE: PRT
217 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
220 <400> SEQUENCE: 20
221   Pro Ser Ser Thr Val Asn Asp Ile Gln Lys Leu Val
222     1                   5                   10
224 <210> SEQ ID NO: 21
225 <211> LENGTH: 16
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
230 <400> SEQUENCE: 21
231   Pro Gly Thr Lys Ala Leu Thr Glu Val Ile Pro Leu Thr Glu Glu Ala
232     1                   5                   10                   15
234 <210> SEQ ID NO: 22
235 <211> LENGTH: 12
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
240 <400> SEQUENCE: 22
241   Pro Ser Ala Gly Ile Arg Lys Val Leu Phe Leu Asp
242     1                   5                   10
244 <210> SEQ ID NO: 23
245 <211> LENGTH: 14
246 <212> TYPE: PRT
247 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
250 <400> SEQUENCE: 23
251   Pro Lys Gln Ile Thr Lys Ile Gln Asn Phe Arg Val Tyr Tyr
252     1                   5                   10
254 <210> SEQ ID NO: 24
255 <211> LENGTH: 13
256 <212> TYPE: PRT
257 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: HIV Helper-T Cell Epitopes
260 <400> SEQUENCE: 24
261   Pro Val Ile Thr Thr Tyr Trp Gly Leu His Thr Gly Glu
262     1                   5                   10
264 <210> SEQ ID NO: 25

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 9

Seq#:146; Xaa Pos. 19